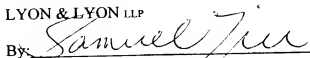## REMARKS

Applicants submit that the added claims 45-51 are supported by the above-identified

specification filed on December 31, 2001 and add no new matter to the specification, *see*,

Specification, EXAMPLE XIII, Page 34. Therefore, the entry of the above-identified amendment is

respectfully requested prior to examination on the merits.

Respectfully submitted,

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Dated: June 25, 2002   By: _____

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Clean Claim Sheet

45. (New) A method for a high-throughput functional screening of a plurality of polynucleotides comprising the steps of:

associating a first polynucleotide to a first non-human sperm cell through a first non-lipsome based linker in a first well on a plate;

simultaneously associating a nth polynucleotide to a nth non-human sperm cell through a nth non-lipsome based linker in a nth well on the plate, wherein n is at least 2;

fertilizing a first non-human egg cell with the first non-human sperm cell associated with the first polynucleotide through the first lipsome based linker to form a first zygote; and

simultaneously fertilizing a nth non-human egg cell with the nth non-human sperm cell associated with the nth polynucleotide through the nth lipsome based linker to form a nth zygote, wherein n is at least 2.

46. (New) The method of claim 45 wherein the non-lipsome based linker is selected from the group consisting of a peptide, a protein, a glycoprotein, and a carbohydrate.

47. (New) The method of claim 46 wherein the protein is an antibody.

48. (New) The method of claim 45 wherein the polynucleotide molecule is a DNA molecule.

49. (New) The method of claim 45 wherein the non-human sperm cell is selected from the group consisting of a mouse sperm cell, a cow sperm cell, a pig sperm cell, a chicken sperm cell, a sheep sperm cell, and a goat sperm cell.

50. (New) The method of claim 45 wherein the plate has at least m wells, wherein m is no less than n and m is at least 2.

51. (New) The method of claim 45 wherein the plate has at least 2 wells.